

Form PTO-1449

Docket Number 529212000300

Application Number 10:071,377

**INFORMATION DISCLOSURE CITATION
IN AN APPLICATION**

(Use several sheets if necessary)

Applicant

Timothy B. KARPISHIN et al.

Filing Date February 7, 2002

Group Art Unit 1624

Hand delivery date: January 28, 2005

U.S. PATENT DOCUMENTS

Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
BC	1.	07/12/2001	2001/0007771	Sullivan et al.	436	71	
BC	2.	07/19/2001	2001/0008772	Smith et al.	435	455	
BC	3.	07/26/2001	2001/0009904	Wolff et al.	514	44	
BC	4.	09/06/2001	2001/0020011	Mathiowitz et al.	514	44	
BC	5.	09/13/2001	2001/0021703	Kosak	514	58	
BC	6.	02/28/2002	2002/0026047	Gale et al.	540	471	
BC	7.	10/23/2003	2003/0199688	Kriesel et al.	540	454	
BC	8.	06/03/2004	2004/0106741	Kriesel et al.	525	329.5	
BC	9.	11/12/1974	3,847,949	Pedersen et al.	260	340.3	
BC	10.	06/21/1977	4,031,111	Pedersen et al.	260	340.3	
BC	11.	05/22/1979	4,155,793	Salemme et al.	156	246	
BC	12.	04/05/1983	4,379,041	Petranek et al.	204	415	
BC	13.	03/20/1984	4,438,251	Herweh	528	73	
BC	14.	11/19/1985	4,554,076	Speaker	210	639	
BC	15.	04/28/1987	4,661,526	Ford	521	53	
BC	16.	02/02/1988	4,722,856	Albrecht et al.	427	402	
BC	17.	07/19/1988	4,758,342	Heckmann et al.	210	490	
BC	18.	05/09/1989	4,828,917	Wegner et al.	428	333	
BC	19.	06/13/1989	4,839,219	Uekita et al.	428	226	
BC	20.	02/20/1990	4,902,424	Wrasidlo	210	50036	
BC	21.	03/20/1990	4,910,293	Uekita et al.	528	353	
BC	22.	08/14/1990	4,948,506	Lonsdale et al.	210	490	
BC	23.	06/11/1991	5,023,252	Hseih	514	183	
BC	24.	07/30/1991	5,035,762	Wegner et al.	156	230	
BC	25.	10/22/1991	5,059,510	Jones, Jr. et al.	430	270	
BC	26.	11/12/1991	5,064,956	Kruper, Jr.	540	474	

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Brenda Coleman

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BC	27.	12/03/1991	5,069,945	Wrasidlo	427	245	
BC	28.	04/07/1992	5,102,798	Guisseppi-Elie	435	177	
BC	29.	09/01/1992	5,143,784	Mita	428	336	
BC	30.	12/22/1992	5,173,365	Singh et al.	428	333	
BC	31.	01/12/1993	5,179,213	Bradshaw et al.	549	3	
BC	32.	03/23/1993	5,196,257	Barraud et al.	428	226	
BC	33.	04/20/1993	5,204,239	Gitler et al.	435	7.1	
BC	34.	07/20/1993	5,229,465	Tsuchida et al.	525	326.2	
BC	35.	07/27/1993	5,231,161	Brunelle et al.	528	272	
BC	36.	08/17/1993	5,237,067	Schumaker	546	187	
BC	37.	08/24/1993	5,238,570	Hugl et al.	210	500.27	
BC	38.	11/09/1993	5,259,957	Rosenfeld et al.	210	490	
BC	39.	08/30/1994	5,342,934	Still et al.	540	456	
BC	40.	10/18/1994	5,357,029	Takekoshi et al.	528	272	
BC	41.	11/08/1994	5,362,476	Sherry et al.	424	9	
BC	42.	11/15/1994	5,364,614	Platzek et al.	424	9	
BC	43.	11/29/1994	5,368,712	Tomich et al.	204	403	
BC	44.	11/29/1994	5,368,889	Johnson et al.	427	244	
BC	45.	01/24/1995	5,384,168	Dübal et al.	428	1	
BC	46.	04/11/1995	5,405,552	Jungbauer et al.	252	299.4	
BC	47.	02/06/1996	5,489,425	Kruper, Jr. et al.	424	1.11	
BC	48.	05/14/1996	5,516,890	Tomich et al.	530	326	
BC	49.	10/01/1996	5,560,151	Roberts	52	81.1	
BC	50.	10/01/1996	5,561,043	Cantor et al.	435	6	
BC	51.	01/14/1997	5,593,656	Belinka, Jr. et al.	424	1.69	
BC	52.	04/22/1997	5,622,945	Sessler et al.	514	185	
BC	53.	05/20/1997	5,631,368	Schultze et al.	540	474	
BC	54.	09/23/1997	5,670,480	Hogan, Jr.	514	12	
BC	55.	10/14/1997	5,677,399	Hall	526	83	

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pa-944268

PTO/SB/08 (2-92)

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BC	56.	10/14/1997	5,677,446	Schultze et al.	540	474	
BC	57.	12/09/1997	5,695,887	Amatucci et al.	429	48	
BC	58.	12/30/1997	5,702,777	Rösch et al.	428	1	
BC	59.	08/04/1998	5,788,862	Degen et al.	210	651	
BC	60.	08/25/1998	5,798,261	Koontz	435	283.1	
BC	61.	11/03/1998	5,830,539	Yan et al.	427	551	
BC	62.	11/03/1998	5,831,087	Haubs et al.	540	460	
BC	63.	12/01/1998	5,843,351	Hirose et al.	264	45.1	
BC	64.	03/16/1999	5,883,246	Brückner et al.	540	145	
BC	65.	06/01/1999	5,908,692	Hamers et al.	428	333	
BC	66.	06/15/1999	5,912,069	Yializis et al.	428	213	
BC	67.	07/06/1999	5,919,369	Ash	210	645	
BC	68.	07/06/1999	5,919,370	Röttger et al.	210	646	
BC	69.	08/03/1999	5,933,819	Skolnick et al.	706	21	
BC	70.	08/10/1999	5,936,100	Furstner et al.	549	266	
BC	71.	10/12/1999	5,965,133	Cantor et al.	424	179.1	
BC	72.	12/07/1999	5,997,961	Feng et al.	427	515	
BC	73.	02/15/2000	6,024,873	Hirose et al.	210	500.38	
BC	74.	03/07/2000	6,033,773	Yang et al.	428	333	
BC	75.	03/14/2000	6,036,778	Albrecht et al.	118	402	
BC	76.	05/02/2000	6,056,903	Greenwood et al.	264	41	
BC	77.	06/06/2000	6,072,044	Seeman et al.	536	22.1	
BC	78.	06/20/2000	6,076,318	Grimm et al.	52	245	
BC	79.	08/22/2000	6,107,496	Osterholdt et al.	549	274	
BC	80.	09/19/2000	6,121,466	Osterholt et al.	549	267	
BC	81.	01/09/2001	6,171,497	Hirose et al.	210	500.38	
BC	82.	01/23/2001	6,177,181	Hamada et al.	428	304.4	
BC	83.	02/27/2001	6,194,388	Krieg et al.	514	44	
BC	84.	03/20/2001	6,203,850	Nomura	427	245	

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BC	85.	04/03/2001	6,210,551	Osman et al.	204	403	
BC	86.	04/17/2001	6,217,873	Rose et al.	424	193.1	
BC	87.	07/17/2001	6,262,257	Gale et al.	540	145	
BC	88.	08/14/2001	6,275,866	Boulia et al.	709	315	
BC	89.	09/25/2001	6,294,697	Wilbur et al.	564	505	
BC	90.	10/30/2001	6,309,546	Herrmann et al.	210	500.25	
BC	91.	10/30/2001	6,309,723	Ding et al.	428	36.92	
BC	92.	01/22/2002	6,340,588	Nova et al.	435	287.1	
BC	93.	04/30/2002	6,380,347	Lau et al.	528	219	
BC	94.	02/25/2003	6,524,613	Steer et al.	424	450	

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Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO	
BC	95.	05/08/1985	EP 0 140 308	Europe	—	—		
BC	96.	08/28/1985	EP 0 153 133	Europe	—	—		
BC	97.	06/25/1986	EP 0 185 573	Europe	—	—	Abstract	
BC	98.	07/16/1986	EP 0 187 702	Europe	—	—		
BC	99.	03/09/1988	EP 0 259 212	Europe	—	—	Abstract	
BC	100.	06/21/1989	EP 0 321 201	Europe	—	—		
BC	101.	09/26/1990	EP 0 388 758	Europe	—	—	Abstract	
BC	102.	05/02/1991	EP 0 424 688	Europe	—	—		
BC	103.	08/14/1991	EP 0 441 120	Europe	—	—		
BC	104.	06/05/2002	EP 1 210 971	Europe	—	—		
BC	105.	03/06/1981	FR 2 646 161	France	—	—	Abstract	
BC	106.	09/24/1998	DE 197 11 078	Germany	—	—	Abstract	
BC	107.	08/06/1992	WO 92/12708	WIPO	—	—		
BC	108.	10/27/1994	WO 94/24153	WIPO	—	—		
BC	109.	08/03/1995	WO 95/20320	WIPO	—	—		

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BC	110.	12/12/1996	WO 96/39402	WIPO	---	---		
BC	111.	03/13/1997	WO 97/09331	WIPO	---	---		
BC	112.	08/21/1997	WO 97/30080	WIPO	---	---		
BC	113.	10/16/1997	WO 97/37995	WIPO	---	---		
BC	114.	03/12/1998	WO 98/09955	WIPO	---	---		
** BC	115.	03/12/1998	WO 98/10442	WIPO	---	---	Abstract	
** BC	116.	08/12/1999	WO 99/40047	WIPO	---	---	Abstract	
BC	117.	10/14/1999	WO 99/51570	WIPO	---	---		
** BC	118.	10/21/1999	WO 99/52923	WIPO	---	---	Abstract	
BC	119.	12/09/1999	WO 99/62623	WIPO	---	---		
BC	120.	05/18/2000	WO 00/28312	WIPO	---	---		
BC	121.	08/09/2001	WO 01/56710	WIPO	---	---		
BC	122.	01/17/2002	WO 02/04918	WIPO	---	---		
BC	123.	11/07/2002	WO 02/88924	WIPO	---	---		
BC	124.	11/07/2002	WO 02/88925	WIPO	---	---		
BC	125.	11/07/2002	WO 02/88926	WIPO	---	---		
BC	126.	11/07/2002	WO 02/88927	WIPO	---	---		
BC	127.	11/07/2002	WO 02/88988	WIPO	---	---		
BC	128.	08/14/2003	WO 03/066646	WIPO	---	---		
BC	129.	08/14/2003	WO 03/067286	WIPO	---	---		

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(including author, title, Date, Pertinent Pages, Etc.)

Examiner Initials	Ref. No.	Title
BC	130.	Akine, S. et al. (2001). "Synthesis and Crystal Structure of a Novel Triangular Macrocyclic Molecule, Tris(H ₂ saloph), and its Water Complex," <i>Tetrahedron Letters</i> 42:8861-8864.
BC	131.	Albrecht, O. et al. (January 1984). "Polymerizable Built Up Multilayers on Polymer Supports," <i>Macromolecules</i> 17(4):937-940.
BC	132.	Alston, D.R. et al. (1987). "Second Sphere Coordination of Tetraammineplatinum(II) by a Macropolycyclic Crown Ether Bisamide Receptor," <i>Angew. Chem. Int. Ed. Engl.</i> 26(7):692-693.
BC	133.	Amato, I. et al. (September 1999). "Nanotechnology: Shaping the World Atom by Atom," <i>National Science and Technology Council, Committee on Technology</i> , Washington, D.C. pp. 1-8.

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BC	134.	Antonelli, D. M. et al. (September 1, 1995). "Synthesis of Hexagonally Packed Mesoporous TiO ₂ by a Modified Sol-Gel Method," <i>Angew. Chem. Int. Ed. Engl.</i> 34(18):2014-2017.
BC	135.	Aoki, A. et al. (October-November 1998). "Photopatterning Using a Cross-Linkable Polymer Langmuir-Blodgett Film," <i>Macromolecules</i> 31(21):7321-7327.
BC	136.	Arslanov, V.V. (1992). "Monolayers and Langmuir-Blodgett Films of Monomers and Polymers Polyreactions, Structural Transformations, Properties and Applications," <i>Advances in Colloid and Interface Science</i> 40:307-370.
BC	137.	Asfari, Z. et al. (1993). "Synthesis and Properties of Double-Calix[4]arenes, Doubly-Crowned Calix[4]arenes, and Double-Calix-Crowns," <i>Pure & Appl. Chem.</i> 65(3):585-590.
** BC	138.	Bacchetti, T. et al. (1952). "Synthesis of Macrocyclic Diketones. I. Thiacyclodiketones," <i>Gazzetta Chimica Italiana</i> 82:243-251. (Italian language)
** BC	139.	Bacchetti, T. et al. (1953). "Synthesis of Macrocyclic Diketones. II. Thiacyclo Diketones and Diacetyl Sulfide," <i>Gazzetta Chimica Italiana</i> 83:832-839. (Italian language)
BC	140.	Baguley, M. E. et al. (1957). "Heterocyclic Imines and Amines. Part VIII. Identification of "o-Cyanothiobenzamide" as 1-Imino-3-Thioisindoline, and its Conversion With Amines Into Macrocycles and Intermediates," <i>The Journal of the Chemical Society Part 1</i> : 709-719.
BC	141.	Batten, J. H. et al. (August 25-29, 1996). "Synthesis and Langmuir Films of Poly (p-Phenylene Vinylene) Precursors," Abstract No. 141, <i>Abstracts of Papers, 212th ACS National Meeting</i> , (August 25-29, 1996) Orlando: FL, one page.
BC	142.	Batten, J. H. et al. (March 24, 1998). "Langmuir Film Polymerization To Form a Soluble Poly(phenylenevinylene) (PPV) Precursor Polymer," <i>Macromolecules</i> 31(9):3148-3150.
BC	143.	Belanger, F. C. et al. (1984). "Chloroplast Biogenesis - 47. Spectroscopic Study of Net Spectral Shifts Induced by Axial Ligand Coordination in Metalated Tetrapyrroles," <i>Spectrochim. Acta</i> , 40A(9):807-827.
BC	144.	Bhattacharyya, T. et al. (2001). "An Efficient and Convergent Route Towards Water-Soluble, Chiral and Amphiphilic Macrocycles," <i>Tetrahedron Letters</i> 42:2873-2875.
BC	145.	Bishop, F. F. (November 1996). "A Description of a Universal Assembler," <i>Proceedings of the IEEE International Joint Symposia on Intelligence and Systems, IEEE Computer Society Press</i> (November 4-5, 1996) Rockville: MD, pp. 126-133.
BC	146.	Black, D. et al. (February 21, 2002). "Compartmental Schiff-Base Ligands as Selective Double-Loaded Extractants For Copper(II)," <i>Chem. Commun.</i> 4:340-341.
BC	147.	Böhmer, V. (1995). "Calixarenes, Macrocycles With (Almost) Unlimited Possibilities," <i>Angew Chem. Eng. Int. Ed.</i> 34(7):713-745.
BC	148.	Breen, T. L. et al. (May 7, 1999). "Design and Self-Assembly of Open, Regular, 3D Mesostructures," <i>Science</i> 284(5416):948-951.

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BC	149.	Busch D. H. et al. (1996). "Molecular Template Effect: Historical View, Principles, and Perspectives" Chapter 1 In <u>Compr. Supramol. Chem.</u> Atwood, J.L. et al. eds. Elsevier Science Inc.: New York, NY 9:1-43.
BC	150.	Büschl, R. et al. (1982). "Polyreactions in Oriented Systems. Mixed Monolayers and Liposomes from Natural and Polymerizable Lipids," <u>Makromol. Chem. Rapid Commun.</u> 3(9):589-596.
BC	151.	Bykov, V.A. (1996). "Langmuir-Blodgett Films and Nanotechnology," <u>Biosensors & Bioelectronics</u> 11(9):923-932.
BC	152.	Campbell, E. J. et al. (2001). "Unsymmetrical Salen-Type Ligands: High Yield Synthesis of Salen-Type Schiff Bases Containing Two Different Benzaldehyde Moieties," <u>Tetrahedron Lett.</u> 42(7):1221-1225.
BC	153.	Campbell, K. et al. (June 26, 2002). "Coordination-Driven Self-Assembly: Solids with Bidirectional Porosity," <u>J. Am. Chem. Soc.</u> 124(25):7266-7267.
BC	154.	Chadim, M. et al. (2001). "(3+3)-Cyclocondensation of the Enantiopure and Racemic Forms of <i>Trans</i> -1, 2-Diaminocyclohexane with Terephthaldehyde. Formation of Diastomeric Molecular Triangles and Their Stereoselective Solid-State Stacking into Microporous Chiral Columns," <u>Tetrahedron: Asymmetry</u> 12:127-133.
BC	155.	Cheryan, M. ed. (1998). <u>Ultrafiltration and Microfiltration Handbook</u> . Technomic Publishing Company, Inc., Lancaster, PA. pp.v-ix and page 91 (Table of Contents Only.)
BC	156.	Conner, M.D. et al. (1993). "Perforated Monolayers: Fabrication of Calix[6]arene-Based Composite Membranes That Function as Molecular Sieves," <u>Langmuir</u> 9:2389-2397.
BC	157.	Conner, M.D. et al. (November 1994). "Perforated Monolayers," <u>Advanced Materials</u> 6(11):872-874.
BC	158.	Corey, E.J. et al. (March 24, 1971). "Methoxymethylation of Thallous Cyclopentadienide. A Simplified Preparation of a Key Intermediate For The Synthesis of Prostaglandins," <u>J. Amer. Chem. Soc.</u> 93(6):1489-1490.
BC	159.	Cox, D.M. (September 1999). "Chapter 4: High Surface Area Materials," located at < http://www.iti.loyola.edu/nano/04_01.html >, last visited on July 21, 2004, 3 pages.
BC	160.	Damrauer, R. (July 19, 2000). "Computational Studies of Aliphatic Alcohol Acidity," <u>J. Am. Chem. Soc.</u> 122(28):6739-3745.
BC	161.	Decher, G. (August 29, 1997). "Fuzzy Nanoassemblies: Toward Layered Polymeric Multicomposites," <u>Science</u> 277(5330):1232-1237.
BC	162.	Desai, T.A. et al. (January 5, 1998). "Microfabricated Immunoisolating Biocapsules," <u>Biotechnology and Bioengineering</u> 57(1):118-120.
BC	163.	Dhathathreyan, A. et al. (2002) "Interfacial Organization of Fluoropolymers in Langmuir Films: Role of Additives," <u>Langmuir</u> 18(12):4704-4708.

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BC	164.	Dickert, F.L. et al. (September 1999). "Self-Organized Polymers as Sensitive Coatings," <i>Proceedings of SPIE-The International Society for Optical Engineering. Chemical Microsensors and Applications II</i> , (September 19-20, 1999) Boston: MA 3857:116-123.
BC	165.	Diwan, J. J. (1999-2001). "Membrane Transport," <i>Molecular Biochemistry of Metabolism</i> , Rensselaer Powerpoint Presentation, located at < http://www.rpi.edu/dept/bcbp/molbiochem/MBWeb/mb1/part2/1 > last visited on October 5, 2004, 34 pages.
BC	166.	Drake, N. L. (1942). "The Bucherer Reaction," Chapter 5 <i>In Organic Reactions</i> John Wiley & Sons, Inc. 1:105-128.
BC	167.	Drexler, K. E. (1992). <i>Nanosystems: Molecular Machinery, Manufacturing, and Computation</i> , John Wiley & Sons, Inc.: New York, NY pages vii-xvi (Table of Contents Only.)
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Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary) JAN 28 2005 PATENT & TRADE	Docket Number 529212000300	Application Number 10 071,377
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INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)	Applicant Timothy B. KARPISHIN et al.	
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Applicant

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**INFORMATION DISCLOSURE CITATION
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Applicant

Timothy B. KARPISHIN et al.

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Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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